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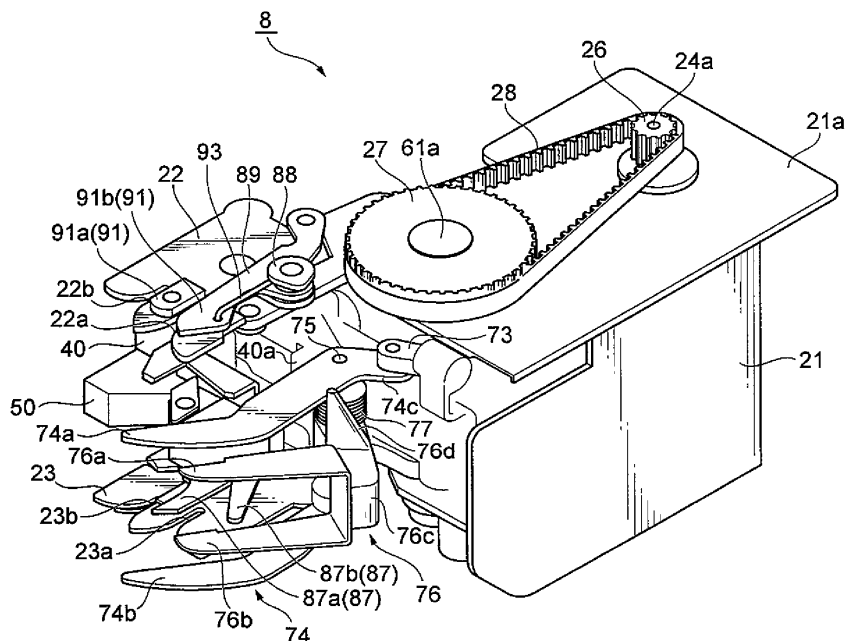
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(54) **Yarn processing device and yarn winding device**

(57) A splicer (8) is a device that carries out processing of joining yarn ends as processing of a yarn, and includes an operation mechanism (80) that performs a plurality of operations to carry out the processing of join-

ing the yarn ends, and a cam mechanism (60) that controls the operation of the operation mechanism (80). The cam mechanism (60) includes a plurality of pattern portions corresponding to each operation of the operation mechanism (80).

FIG. 2





EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims				
Place of search The Hague		Date of completion of the search 16 December 2013	Examiner Pussemier, Bart	
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		

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EUROPEAN SEARCH REPORT

Application Number
EP 12 17 1726

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3, 12

A yarn processing device and method with an operation mechanism and a transmission mechanism including a plurality of pattern portions, wherein the transmission mechanism is a cam mechanism including a rotatable plate-like member.

2. claims: 4, 5, 13, 14

A yarn processing device and method with an operation mechanism and a transmission mechanism including a plurality of pattern portions, comprising a drive source for controllably driving the transmission mechanism.

3. claims: 6, 7, 15, 16

A yarn processing device and method with an operation mechanism and a transmission mechanism including a plurality of pattern portions, with a sensor for detecting the initial position of the pattern portion.

4. claims: 8-11, 17

A yarn processing device with an operation mechanism and a transmission mechanism including a plurality of pattern portions, wherein the operations include joining of yarns.

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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